RNATIONAL-SEARCHING AUTHORITY

To:

DENNISON ASSOCIATES Attn. Johnson, T. Scott 133 Richmond Street West Suite 301

Toronto, Ontario M5H 2L7

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

CANADA			
	Date of mailing (day/month/year) 26/05/2004		
Applicant's or agent's file reference			
SJ-11923-1W0	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No	International filing date		
PCT/CA 03 01957	(day/month/year) 19/12/2003		
Applicant			
LUPKE, Manfred, A. A.			

1.	x			otified that the International Search Report has been established and is transmitted herewith.
		The appl	amendments a icant is entitled,	nd statement under Article 19: If he so wishes, to amend the claims of the International Application (see Rule 46):
		When?	The time limit for International Se	or filing such amendments is normally 2 months from the date of transmittal of the earch Report; however, for more details, see the notes on the accompanying sheet.
		Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35
		For more	e detailed instr	actions, see the notes on the accompanying sheet.
2.		The appl Article 17	icant is hereby n 7(2)(a) to that eff	otified that no International Search Report will be established and that the declaration under ect is transmitted herewith.
3.		With reg	ard to the prote	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the app	protest tog ether plicant's request	with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of both the protest and the decision thereon to the designated Offices.
		no	decision has be	en made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Furt	her action	n(s): The appl	icant is reminded of the following:
	If t	he applica ority claim	ant wishes to avo	the priority date, the international application will be published by the International Bureau. bid or postpone publication, a notice of withdrawal of the international application, or of the international Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the reparations for International publication.
	With wis	in 19 mor shes to po	nths from the pri	ority date, a demand for international preliminary examination must be filed if the applicant into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, _ Fax: (+31-70) 340-3016

priority date or could not be elected because they are not bound by Chapter II.

Authorized officer

Marie-Laure Dupont-H}per

Form PCT/ISA/220 (July 1998)

Nol 23/04 Am

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

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Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;

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(v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1 [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2 [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3 [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4 [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Arbole 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

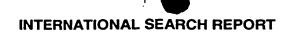
Notes to Form PCT/ISA/220 (second sheet) (January 1994)



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report
SJ-11923-1WO	ACTION (Form PCT/ISA/2)	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/CA 03/01957	19/12/2003	10/01/2003
Applicant		
LUPKE, Manfred, A. A.		
	And the state of t	· · · · · · · · · · · · · · · · · · ·
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authansmitted to the International Bureau.	ority and is transmitted to the applicant
This International Search Report consists		
X It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report		
	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
	as carried out on the basis of a translation of the	ne international application furnished to this
Authority (Rule 23.1(b)).		
b. With regard to any nucleotide an was carried out on the basis of the		ternational application, the international search
contained in the internatio	nal application in written form.	
	mational application in computer readable form	1.
	this Authority in written form. this Authority in computer readble form.	
the statement that the sub	sequently furnished written sequence listing do	pes not go beyond the disclosure in the
international application a		Identical to the wellton accuracy listing has been
furnished	ormation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been establish	hed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as su	bmitted by the applicant.	
	hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	
6. The figure of the drawings to be publi	•	3
as suggested by the applic	cant.	None of the figures.
because the applicant falk	ed to suggest a figure.	
X because this figure better	characterizes the invention.	



क्ट**रम्**डिट

internal application No.

PCT/CA 03/01957

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

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Equipment (1) used in the molding of plastic pipe includes die tooling (3) provided with a plastic flow distributor (25) at the upper end of the die tooling. The plastic flow distributor has adjustable flow to provide an even distribution of plastic from an extruder into at least one die passage (9) within the die tooling.

PCT/CA 03/01957

A. CLASSI IPC 7	ification of subject matter B29C47/70 B29C47/58 B29C47/0	06	
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	•
	SEARCHED	anon and ir O	
Minimum do IPC 7	ocumentation searched (classification system followed by classification B29C	on symbols)	
	tion searched other than minimum documentation to the extent that s		
	ata base consulted during the international search (name of data ba	se and, where practical, search terms used	
EPO-In	ternal		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		<u>.</u>
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to daim No.
X	WO 00/07801 A (UNICOR ROHRSYSTEME NEUBAUER GERHARD (DE)) 17 February 2000 (2000-02-17) the whole document	GMBH ;	1-6
Α	WO 86/05437 A (UPONOR AB) 25 September 1986 (1986-09-25) page 3, line 18 - page 4, line 30 3-5); figures	1-6
A	DE 295 17 378 U (DROSSBACH GMBH 8 29 February 1996 (1996-02-29) the whole document 	CO KG)	1-6
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
Special cal	legories of cited documents:	*** Inter document muhiiched after the inter	ational filling data
conside	nt defining the general state of the art which is not ered to be of particular relevance	*T* tater document published after the inter- or priority date and not in conflict with to cited to understand the principle or the invention	the application but ory underlying the
filing d	ate nt which may throw doubts on priority claim(s) or	"X" document of particular relevance; the cl cannot be considered novel or cannot involve an inventive step when the doc	be considered to
which i	a alta d ta a ababilah tha muhilanikan data at a akhar	"Y" document of particular relevance; the cl	aimed invention
	ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an inv document is combined with one or mor ments, such combination being obviou	re other such docu-
"P" docume	nt published prior to the international filing date but	in the art. *&* document member of the same patent f	amily
	actual completion of the international search	Date of mailing of the international sear	
17	7 May 2004	26/05/2004	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,		
	Fax: (+31-70) 340-3016	Lorente Munoz, N	

INTERNAL SEARCH REPORT

hat Application No
PCT/CA 03/01957

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